

Serial No.: 09/913,501

IN THE CLAIMS:

1. to 88. (Canceled)

89. (Currently Amended) A polymer battery module packaging sheet manufacturing method comprising the steps of:

processing at least one of a surface of an aluminum layer by chemical conversion treatment with an aqueous solution comprising a mixture of a phenolic resin, a trivalent chromium fluoride compound, and phosphoric acid;

dry-laminating a base layer to one of the surfaces of the aluminum layer;

forming a laminated sheet by laminating a film consisting of an adhesive resin layer and an innermost layer and formed by a coextrusion lamination method to the surface processed by the chemical conversion treatment of the aluminum layer so that the adhesive resin layer faces the aluminum layer, and then cooling the adhesive resin layer by passing the laminated sheet between a chill roll and a pressure roll; and

Serial No.: 09/913,501

heating the laminated sheet so that the adhesive resin layer is heated at a temperature not lower than its softening point.

90. (Currently Amended) A polymer battery module packaging sheet manufacturing method comprising the steps of:

processing at least one of a surface of an aluminum layer by chemical conversion treatment with an aqueous solution comprising a mixture of a phenolic resin, a trivalent chromium fluoride compound, and phosphoric acid;

dry-laminating a base layer to one of the surfaces of the aluminum layer;

forming a laminated sheet by bonding a polypropylene resin film with an adhesive resin layer of an acid-modified polypropylene resin to the other surface processed by the chemical conversion treatment of the aluminum layer by a sandwich lamination process so that the adhesive resin layer faces the aluminum layer, and then cooling the adhesive resin layer by passing the laminated sheet between a chill roll and a pressure roll; and

Serial No.: 09/913,501

heating the laminated sheet so that the adhesive resin layer is heated at a temperature not lower than its softening point.

91. (Currently Amended) A polymer battery module packaging sheet manufacturing method comprising the steps of:

processing at least one of a surface of an aluminum layer by chemical conversion treatment with an aqueous solution comprising a mixture of a phenolic resin, a trivalent chromium fluoride compound, and phosphoric acid;

dry-laminating a base layer to one of the surfaces of the aluminum layer;

forming a laminated sheet by laminating a film consisting of a film of an adhesive resin layer of an acid-modified polyethylene resin and a film of a polyethylene resin to the surface processed by the chemical conversion treatment of the aluminum layer by a coextrusion lamination method so that the adhesive resin layer faces the aluminum layer, and then cooling the adhesive resin layer by passing the laminated sheet between a chill roll and a pressure roll; and

heating the laminated sheet so that the film of the acid-modified polyethylene resin is heated at a temperature not lower than the softening point of the acid-modified polyethylene resin.

92. (Currently Amended) A polymer battery module packaging sheet manufacturing method comprising the steps of:

processing at least one of a surface of an aluminum layer by chemical conversion treatment with an aqueous solution comprising a mixture of a phenolic resin, a trivalent chromium fluoride compound, and phosphoric acid;

dry-laminating a base layer to one of the surfaces of the aluminum layer;

forming a laminated sheet by bonding a film of a polyethylene resin with an adhesive resin layer of an acid-modified polyethylene resin to the surface processed by the chemical conversion treatment of the aluminum layer by a sandwich lamination process so that the adhesive resin layer faces the aluminum layer, and then cooling the adhesive resin layer by passing the laminated sheet between a chill roll and a pressure roll; and

Serial No.: 09/913,501

heating the laminated sheet so that the adhesive resin layer is heated at a temperature not lower than the softening point of the acid-modified polyethylene resin.

93. (Currently Amended) A polymer battery module packaging sheet manufacturing method comprising the steps of:

processing at least one of a surface of an aluminum layer by chemical conversion treatment with an aqueous solution comprising a mixture of a phenolic resin, a trivalent chromium fluoride compound, and phosphoric acid;

dry-laminating a base layer to one of the surfaces of the aluminum layer;

forming a laminated sheet by laminating a film consisting of a film of an adhesive resin layer of an acid-modified polypropylene resin and a film of an ethylene-rich random polypropylene resin to the surface processed by the chemical conversion treatment of the aluminum layer by a coextrusion lamination method so that the adhesive resin layer faces the aluminum layer, and then cooling the adhesive resin layer by passing the laminated sheet between a chill roll and a pressure roll; and

Serial No.: 09/913,501

heating the laminated sheet so that the adhesive resin layer is heated at a temperature not lower than the softening point of the acid-modified polypropylene resin.

94. (Currently Amended) A polymer battery module packaging sheet manufacturing method comprising the steps of:

processing at least one of a surface of an aluminum layer by chemical conversion treatment with an aqueous solution comprising a mixture of a phenolic resin, a trivalent chromium fluoride compound, and phosphoric acid;

dry-laminating a base layer to one of the surfaces of the aluminum layer;

forming a laminated sheet by bonding a film of an ethylene-rich random polypropylene resin with an adhesive resin layer of an acid-modified polypropylene resin to the surface processed by the chemical conversion treatment of the aluminum layer by a sandwich lamination process so that the adhesive resin layer faces the aluminum layer, and then cooling the adhesive resin layer by passing the laminated sheet between a chill roll and a pressure roll; and

Serial No.: 09/913,501

heating the laminated sheet so that the adhesive resin layer is heated at a temperature not lower than the softening point of the resin layer.

95. (Previously Presented) The polymer battery module packaging sheet manufacturing method according to claim 90, wherein both surfaces of the aluminum layer are processed by a chemical conversion treatment.

96. (Previously Presented) The polymer battery module packaging sheet manufacturing method according to claim 91, wherein both surfaces of the aluminum layer are processed by a chemical conversion treatment.

97. (Canceled)

98. (Previously Presented) The polymer battery module packaging sheet manufacturing method according to claim 93, wherein the polypropylene resin is a multilayer structure including at least one layer of an ethylene-rich random polypropylene resin.

99. (Previously Presented) The polymer battery module packaging sheet manufacturing method according to claim 94, wherein the polypropylene resin is a multilayer structure including at least one layer of an ethylene-rich random polypropylene resin.

100. (Currently Amended) A polymer battery module packaging sheet manufacturing method, comprising the steps of:

processing one of a surface of an aluminum layer by chemical conversion treatment with an aqueous solution comprising a mixture of a phenolic resin, a trivalent chromium fluoride compound, and phosphoric acid;

dry-laminating the aluminum layer to a base layer with the other surface of the aluminum layer not processed by the chemical conversion treatment bonded to the base layer;

forming an innermost layer on the surface processed by the chemical conversion treatment of the aluminum layer by extruding a molten resin for forming the innermost layer in a molten resin film by an extrusion method, and



Serial No.: 09/913,501

heating the innermost layer at a temperature not lower than its softening point.

101. (Previously Presented) The polymer battery module packaging sheet manufacturing method according to claim 100, wherein a surface of the molten resin film facing the aluminum layer is processed by ozone treatment when forming the innermost layer.

102. (Previously Presented) The polymer battery module packaging sheet manufacturing method according to claim 90, wherein a surface of the adhesive resin layer facing the aluminum layer is processed by ozone treatment when forming the laminated sheet.

103. to 110. (Canceled)

111. (New) A polymer battery module packaging sheet manufacturing method comprising the steps of:

processing at least one of a surface of an aluminum layer by chemical conversion treatment;

dry-laminating a base layer to one of the surfaces of the aluminum layer;

forming a laminated sheet by laminating a film consisting of an adhesive resin layer of an acid-modified polypropylene resin and an innermost layer of a polypropylene resin and formed by a coextrusion lamination method to the surface processed by the chemical conversion treatment of the aluminum layer so that the adhesive resin layer faces the aluminum layer, and then cooling the adhesive resin layer by passing the laminated sheet between a chill roll and a pressure roll; and

heating the laminated sheet so that the adhesive resin layer is heated at a temperature not lower than its softening point.

112. (New) A polymer battery module packaging sheet manufacturing method comprising the steps of:

processing at least one of a surface of an aluminum layer by chemical conversion treatment;

dry-laminating a base layer to one of the surfaces of the aluminum layer;

Serial No.: 09/913,501

forming a laminated sheet by bonding film with an adhesive resin layer to the other surface processed by the chemical conversion treatment of the aluminum layer by a sandwich lamination process so that the adhesive resin layer faces the aluminum layer, and then cooling the adhesive resin layer by passing the laminated sheet between a chill roll and a pressure roll; and

heating the laminated sheet so that the adhesive resin layer is heated at a temperature not lower than its softening point.